Dear Kansas Lawmakers:

My name is Reid Shrauner. I farm in Southwest Kansas as well as the Oklahoma Panhandle. I am a 4th generation farmer. My great grandfather homesteaded in Morton County in 1907. He farmed dry land crops until his death in 1941. Irrigation began here in the 1950's and was developed continually through the 1990s. We have been blessed with good wells. My family's livelihood is dependent on irrigated farming put in place by my grandfather and father. I am 36 years old and have not personally drilled a water well, yet everything I do depends on irrigation. I feel that economic circumstances have almost forced us into growing the most irrigation intensive crop, corn. We desperately need a way to farm profitably using less water.

My father is nearly 70 years old, and he will not see the Ogallala aquifer depleted. We monitor the static water drawdown of our wells and one can mathematically predict the end. If I live as long as my dad and granddad, I believe I will see the end of agriculture irrigation as we know it.

I believe in meaningful water conservation. We are as efficient as we can be in our methods of irrigation; the real issue is the economics of our cropping options. I urge you to refer to Kansas State University extension's website, agmanager.info; specifically, crop budgets by practice and region. You will find that corn is the only crop option with a positive return.

The proposed bill HB 2182 seeks to deliver Kansas farmers like myself a cropping option that will be a less water intensive, yet profitable alternative to corn. This is an opportunity that does not come along everyday. We need to allow farmers and Kansas State to research the full potential of this crop. The products made from industrial hemp are beneficial, renewable, and legal. For Kansas to not seek to capitalize on this opportunity would be foolish.

Farm commodity prices are at historic lows, adjusted for inflation. Governor Brownback has made water a top priority. Kansas is the definition of an ag-based economy. There are numerous studies and predictions of what the western Kansas economy will look like post irrigation, it is not good.

We need to take this opportunity to help farmers be profitable, conserve water, and create much-needed additional tax base for the state and counties. Any opposition to HB 2182 would be a disservice to the state of Kansas.

Sincerely,

Reid Shrauner
## 2017 Irrigated Wheat (Center-Pivot) Cost-Return Budget

---Western Kansas

Gregg Ibendahl, Dan O'Brien, Lucas Haag, and John Holman

Budget date: Oct-01-2016

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Price</th>
<th>Quantity</th>
<th>Amount</th>
<th>Sub-total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INCOME</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Product</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheat - Western KS</td>
<td>bu</td>
<td>$3.77</td>
<td>65,000</td>
<td>$244.88</td>
<td>$244.88</td>
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</table>

**--TOTAL INCOME--**

**EXPENSES**

<table>
<thead>
<tr>
<th>Fertilizers</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>lb</td>
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<tr>
<td>Phosphorus</td>
<td>lb</td>
<td>$0.33</td>
<td>30,800</td>
<td>$10.13</td>
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</tbody>
</table>

| Herbicides                        |      |        |          |         |           |
| Pre-emergence                     |      | $7.74  |          | $7.74   |           |

| Seeds                             |      |        |          |         | 24.30     |

| Crop insurance                    |      |        |          |         | 29.62     |

| Miscellaneous                     |      |        |          |         | 10.00     |

| Fungicides                        |      |        |          |         | 9.02      |

| Crop consulting                   |      |        |          |         | 6.00      |

| Labor (beyond custom field operations) |      |        |          |         | 24.00     |

| Custom Field Operations           |      |        |          |         |           |
| Fertilizer application            |      | $6.14  |          |         |           |
| Harvesting                        |      | $29.89 |          |         |           |
| Hauling                           |      | $13.36 |          |         |           |
| Planting                          |      | $19.07 |          |         |           |
| Spraying                          |      | $12.08 |          |         |           |

| Natural Gas                       |      |        |          |         | 28.53     |

| Repair & Maintenance              |      |        |          |         | 3.30      |

| Interest on operating capital    | 6% on direct expenses | $7.90 | $7.90    |

| Depreciation                     |      |        |          |         | 76.67     |

| Interest on durable equipment    |      |        |          |         | 59.22     |

| Cash rent                        |      |        |          |         | 136.00    |

**--TOTAL SPECIFIED EXPENSES--**

$543.15

**RETURNS ABOVE TOTAL SPECIFIED EXPENSES**

-$298.27
## 2017 Irrigated Wheat (Center-Pivot) Cost-Return Budget

--- Western Kansas

Gregg Ibendahl, Dan O'Brien, Lucas Haag, and John Holman

Budget date: Oct-01-2016

<table>
<thead>
<tr>
<th>Item</th>
<th>unit</th>
<th>price</th>
<th>quantity</th>
<th>amount</th>
<th>Sub-total</th>
<th>your farm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INCOME</strong></td>
<td></td>
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</tr>
<tr>
<td>Product</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Wheat - Western KS</td>
<td>bu</td>
<td>$3.77</td>
<td>65,0000</td>
<td>$244.68</td>
<td>$244.68</td>
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<tr>
<td>Other</td>
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<tr>
<td>Govt payments, indemnity payments, etc.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>--TOTAL INCOME--</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>$244.88</td>
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</tr>
<tr>
<td><strong>DIRECT EXPENSES</strong></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Fertilizers</td>
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<td></td>
</tr>
<tr>
<td>C - DAP (18-46-0) (1)</td>
<td>lb</td>
<td>$0.21</td>
<td>67,0000</td>
<td>$14.35</td>
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<tr>
<td>C - Urea</td>
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<tr>
<td><strong>--- ACTUAL POUNDS - 90 N, 31 P, 0 K</strong></td>
<td></td>
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</tr>
<tr>
<td>Herbicides</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B - 2, 4-D LV Ester (1)</td>
<td>oz</td>
<td>$0.19</td>
<td>8,0000</td>
<td>$1.52</td>
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<tr>
<td>B - Ally</td>
<td>oz</td>
<td>$0.30</td>
<td>0,1000</td>
<td>$0.93</td>
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<tr>
<td>B - Barve 4</td>
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<td>$0.39</td>
<td>4,0000</td>
<td>$1.55</td>
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<tr>
<td>B - Glyphosate generic</td>
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<td>$0.12</td>
<td>32,0000</td>
<td>$3.74</td>
<td>$7.74</td>
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<tr>
<td>Seeds</td>
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</tr>
<tr>
<td>Wheat (base)</td>
<td>lb</td>
<td>$0.27</td>
<td>90,0000</td>
<td>$24.30</td>
<td>$24.30</td>
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<tr>
<td>Crop insurance</td>
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<tr>
<td>Wheat_West_Irr</td>
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<td>$29.62</td>
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<td>$29.62</td>
<td>$29.62</td>
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<td>Miscellaneous</td>
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<td>Wheat_West_Irr</td>
<td>acre</td>
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<td>$10.00</td>
<td>$10.00</td>
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<td>Fungicides</td>
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<tr>
<td>Folicur (1)</td>
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<td>$0.45</td>
<td>1.3300</td>
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<tr>
<td>Headline</td>
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<td>1.3300</td>
<td>$4.19</td>
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<tr>
<td>Guilt</td>
<td>oz</td>
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<td>$4.23</td>
<td>$9.02</td>
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<tr>
<td>Crop consulting</td>
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</tr>
<tr>
<td>Wheat_West_Irr</td>
<td>acre</td>
<td>$6.00</td>
<td>1.0000</td>
<td>$6.00</td>
<td>$6.00</td>
<td></td>
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<tr>
<td>Labor (beyond custom field operations)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Additional labor</td>
<td>hour</td>
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<td>1.2000</td>
<td>$18.00</td>
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<tr>
<td>Irrigation labor</td>
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<td>$24.00</td>
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<td>Custom Field Operations</td>
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<td></td>
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<tr>
<td>FERTAPP-Dry fertilizer</td>
<td>acre</td>
<td>$6.14</td>
<td>1.0000</td>
<td>$6.14</td>
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<tr>
<td>HARVEST-Wheat (base)</td>
<td>acre</td>
<td>$20.87</td>
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<td>$20.87</td>
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<tr>
<td>HARVEST-Wheat (extra charge for yields above 22 bu)</td>
<td>bu</td>
<td>$0.21</td>
<td>43,0000</td>
<td>$9.02</td>
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<td></td>
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<tr>
<td>HAUL-Wheat - hauling</td>
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<tr>
<td>PLANT-Wheat, min-till planting</td>
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<td>$19.07</td>
<td>1.0000</td>
<td>$19.07</td>
<td></td>
<td></td>
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<tr>
<td>SPRAY-Ground herbicide</td>
<td>acre</td>
<td>$6.01</td>
<td>1.0000</td>
<td>$6.01</td>
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<tr>
<td>SPRAY-Ground insecticide</td>
<td>acre</td>
<td>$6.07</td>
<td>1.0000</td>
<td>$6.07</td>
<td>$80.54</td>
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<tr>
<td>Natural Gas</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Well, pump, and gearhead</td>
<td>Mcf</td>
<td>$4.00</td>
<td>7.1300</td>
<td>$28.53</td>
<td>$28.53</td>
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<tr>
<td>Repair &amp; Maintenance</td>
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<tr>
<td>Well, pump, and gearhead</td>
<td>ac-in</td>
<td>$0.33</td>
<td>10.0000</td>
<td>$3.30</td>
<td>$3.30</td>
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<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crop consulting, drying, etc.</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interest on operating capital</td>
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<tr>
<td>6% on direct expenses</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$7.90</td>
<td>$7.90</td>
</tr>
</tbody>
</table>

Department of Agricultural Economics - Kansas State University

AgManager.info
## 2017 Irrigated Wheat (Center-Pivot) Cost-Return Budget

---Western Kansas---

Gregg Ibendahl, Dan O'Brien, Lucas Haag, and John Holman

**Budget date:** Oct-01-2016

### Item | unit | price | quantity | amount | Sub-total | your farm
---|---|---|---|---|---|---
---TOTAL DIRECT EXPENSES--- | | | | | | $

#### FIXED EXPENSES

**Depreciation**

<table>
<thead>
<tr>
<th>item</th>
<th>unit</th>
<th>price</th>
<th>quantity</th>
<th>amount</th>
<th>Sub-total</th>
<th>your farm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigation - Center Pivot</td>
<td>acre</td>
<td>$22.43</td>
<td>1.0000</td>
<td>$22.43</td>
<td></td>
<td></td>
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<tr>
<td>Power unit</td>
<td>acre</td>
<td>$17.60</td>
<td>1.0000</td>
<td>$17.60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Well, pump, and gearhead</td>
<td>acre</td>
<td>$36.64</td>
<td>1.0000</td>
<td>$36.64</td>
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<td></td>
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</tbody>
</table>

**Interest on durable equipment**

<table>
<thead>
<tr>
<th>item</th>
<th>unit</th>
<th>price</th>
<th>quantity</th>
<th>amount</th>
<th>Sub-total</th>
<th>your farm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigation - Center Pivot</td>
<td>acre</td>
<td>$28.04</td>
<td>1.0000</td>
<td>$28.04</td>
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</tr>
<tr>
<td>Power unit</td>
<td>acre</td>
<td>$3.70</td>
<td>1.0000</td>
<td>$3.70</td>
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<tr>
<td>Well, pump, and gearhead</td>
<td>acre</td>
<td>$27.48</td>
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<td>$27.48</td>
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</table>

**Cash rent**

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<thead>
<tr>
<th>item</th>
<th>unit</th>
<th>price</th>
<th>quantity</th>
<th>amount</th>
<th>Sub-total</th>
<th>your farm</th>
</tr>
</thead>
<tbody>
<tr>
<td>All crops_West_Irr</td>
<td>acre</td>
<td>$136.00</td>
<td>1.0000</td>
<td>$136.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---TOTAL FIXED EXPENSES---

---TOTAL SPECIFIED EXPENSES---

<table>
<thead>
<tr>
<th>item</th>
<th>unit</th>
<th>price</th>
<th>quantity</th>
<th>amount</th>
<th>Sub-total</th>
<th>your farm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$543.15</td>
</tr>
</tbody>
</table>

---RETURNS ABOVE DIRECT EXPENSES---

<table>
<thead>
<tr>
<th>item</th>
<th>unit</th>
<th>price</th>
<th>quantity</th>
<th>amount</th>
<th>Sub-total</th>
<th>your farm</th>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>$-26.38</td>
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---RETURNS ABOVE TOTAL SPECIFIED EXPENSES---

<table>
<thead>
<tr>
<th>item</th>
<th>unit</th>
<th>price</th>
<th>quantity</th>
<th>amount</th>
<th>Sub-total</th>
<th>your farm</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$-298.27</td>
</tr>
</tbody>
</table>

---

12 acre-inches of water applied
300 foot well depth
$ fuel cost per acre-inch of water applied

---
## 2017 Irrigated Grain Sorghum (Center-Pivot) Cost-Return Budget

---Western Kansas

Gregg Ibendahl, Dan O'Brien, Lucas Haag, John Holman

Budget date: Oct-01-2016

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Price</th>
<th>Quantity</th>
<th>Amount</th>
<th>Sub-total</th>
<th>Your farm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INCOME</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grain Sorghum - Western KS</td>
<td>bu</td>
<td>$3.43</td>
<td>106.0000</td>
<td>$363.82</td>
<td>$363.82</td>
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<tr>
<td>Other</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Govt payments, indemnity payments, etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL INCOME</strong></td>
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<td></td>
<td></td>
<td></td>
<td>$363.82</td>
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<tr>
<td><strong>DIRECT EXPENSES</strong></td>
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</tr>
<tr>
<td>Fertilizers</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>B - DAP (18-46-0) (with planter)</td>
<td>lb</td>
<td>$0.21</td>
<td>89.0000</td>
<td>$19.06</td>
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<td></td>
</tr>
<tr>
<td>B - Urea</td>
<td>lb</td>
<td>$0.15</td>
<td>148.0000</td>
<td>$22.74</td>
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<tr>
<td><strong>--- ACTUAL POUNDS ---</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>84 N, 41 P, 0 K</td>
</tr>
<tr>
<td>Herbicides</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A - 2, 4-D LV Ester (1)</td>
<td>oz</td>
<td>$0.19</td>
<td>8.0000</td>
<td>$1.52</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A - Dicamba</td>
<td>oz</td>
<td>$0.46</td>
<td>12.0000</td>
<td>$5.47</td>
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<tr>
<td>A - Glyphosate generic</td>
<td>oz</td>
<td>$0.12</td>
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## 2017 Irrigated Grain Sorghum (Center-Pivot) Cost-Return Budget

**Western Kansas**

*Gregg Ibendahl, Dan O'Brien, Lucas Haag, John Holman*

**Budget date:** Oct-01-2016

### INCOME

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**--TOTAL INCOME--**

  $363.82

### EXPENSES

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**--TOTAL SPECIFIED EXPENSES--**

  $606.81

**RETURNS ABOVE TOTAL SPECIFIED EXPENSES**

- $242.99
## 2017 Irrigated Grain Sorghum (Center-Pivot) Cost-Return Budget

**Western Kansas**

*Gregg Ibendahl, Dan O'Brien, Lucas Haag, John Holman*

**Budget date:** Oct-01-2016

### FIXED EXPENSES

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**--TOTAL FIXED EXPENSES--**

$271.89

**--TOTAL SPECIFIED EXPENSES--**

$606.81

**RETURNS ABOVE DIRECT EXPENSES**

$28.89

**RETURNS ABOVE TOTAL SPECIFIED EXPENSES**

-$242.99

---

12 acre-inches of water applied
300 foot well depth
$ fuel cost per acre-inch of water applied
## Irrigated Corn (center-pivot) Cost-Return Budget

**Southwest Kansas (ave yields)**

*Gregg Ibendahl, Dan O'Brien, Lucas Haag, John Holman*

**Budget date:** Oct-01-2016

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**RETURNS ABOVE TOTAL SPECIFIED EXPENSES**

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</tr>
<tr>
<td>Product</td>
<td></td>
<td></td>
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<tr>
<td>Corn - Southwest KS</td>
<td>bu</td>
<td>$3.91</td>
<td>210.0000</td>
<td>$820.36</td>
<td>$820.36</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Govt payments, indemnity payments, etc.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>--TOTAL INCOME--</strong></td>
<td></td>
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<tr>
<td><strong>DIRECT EXPENSES</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Fertilizers</td>
<td></td>
<td></td>
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<tr>
<td>B - DAP (18-46-0) (with planter)</td>
<td>lb</td>
<td>$0.21</td>
<td>161.0000</td>
<td>$34.49</td>
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<tr>
<td>B - Urea</td>
<td>lb</td>
<td>$0.15</td>
<td>304.0000</td>
<td>$46.72</td>
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<tr>
<td><strong>--- ACTUAL POUNDS --- 160 N, 74 P, 0 K</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Herbicides</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>A - 2, 4-D LV Ester (1)</td>
<td>oz</td>
<td>$0.19</td>
<td>8.0000</td>
<td>$1.52</td>
<td></td>
<td></td>
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<tr>
<td>A - Dicamba</td>
<td>oz</td>
<td>$0.46</td>
<td>12.0000</td>
<td>$5.57</td>
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<td></td>
</tr>
<tr>
<td>A - Glyphosate generic</td>
<td>oz</td>
<td>$0.12</td>
<td>32.0000</td>
<td>$3.74</td>
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</tr>
<tr>
<td>B - Atrazine 4L (1)</td>
<td>qt</td>
<td>$3.52</td>
<td>1.5000</td>
<td>$5.29</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B - Covrus</td>
<td>oz</td>
<td>$5.32</td>
<td>5.6000</td>
<td>$29.82</td>
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<td></td>
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<tr>
<td>C - Glyphosate generic (.5)</td>
<td>oz</td>
<td>$0.12</td>
<td>16.0000</td>
<td>$1.87</td>
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<td>Insecticides</td>
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<tr>
<td>Hero (1)</td>
<td>oz</td>
<td>$1.52</td>
<td>10.3000</td>
<td>$15.67</td>
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<tr>
<td>Seeds</td>
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<tr>
<td>Corn - triple stack</td>
<td>1K seeds</td>
<td>$4.00</td>
<td>32.0000</td>
<td>$128.00</td>
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<td>Crop insurance</td>
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<tr>
<td>Corn_SW_Irr</td>
<td>acre</td>
<td>$21.38</td>
<td>1.0000</td>
<td>$21.38</td>
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<tr>
<td>Miscellaneous</td>
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<tr>
<td>Corn_SW_Irr</td>
<td>acre</td>
<td>$10.00</td>
<td>1.0000</td>
<td>$10.00</td>
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<td>Fungicides</td>
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<tr>
<td>Headline (.3)</td>
<td>oz</td>
<td>$3.15</td>
<td>1.5750</td>
<td>$4.96</td>
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<tr>
<td>Quill,Xcel</td>
<td>oz</td>
<td>$1.25</td>
<td>1.5750</td>
<td>$1.97</td>
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<tr>
<td>Crop consulting</td>
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<tr>
<td>Corn_SW_Irr</td>
<td>acre</td>
<td>$6.50</td>
<td>1.0000</td>
<td>$6.50</td>
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<tr>
<td>Labor (beyond custom field operations)</td>
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<tr>
<td>Additional labor</td>
<td>hour</td>
<td>$15.00</td>
<td>1.2000</td>
<td>$18.00</td>
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<tr>
<td>Irrigation labor</td>
<td>hour</td>
<td>$15.00</td>
<td>0.7200</td>
<td>$10.80</td>
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<tr>
<td>Custom Field Operations</td>
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<tr>
<td>DRY-Drying corn (includes fuel, electricity, labor) - bin</td>
<td>bu</td>
<td>$0.05</td>
<td>210.0000</td>
<td>$11.34</td>
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<tr>
<td>HARVEST-Corn (base)</td>
<td>acre</td>
<td>$27.26</td>
<td>1.0000</td>
<td>$27.26</td>
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<td></td>
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<tr>
<td>HARVEST-Corn (extra charge for yields above 65 bu)</td>
<td>bu</td>
<td>$0.24</td>
<td>145.0000</td>
<td>$34.34</td>
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<tr>
<td>HAUL-Corn - hauling</td>
<td>bu</td>
<td>$0.17</td>
<td>210.0000</td>
<td>$35.45</td>
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<tr>
<td>PLANT-Corn, reg-till planting</td>
<td>acre</td>
<td>$17.48</td>
<td>1.0000</td>
<td>$17.48</td>
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<td></td>
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<tr>
<td>SPRAY-Ground herbicide</td>
<td>acre</td>
<td>$6.01</td>
<td>2.5000</td>
<td>$15.02</td>
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<tr>
<td>SPRAY-Ground insecticide</td>
<td>acre</td>
<td>$6.03</td>
<td>1.3000</td>
<td>$7.84</td>
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<tr>
<td>TILL-Cultivating ridge-till</td>
<td>acre</td>
<td>$16.45</td>
<td>1.0000</td>
<td>$16.45</td>
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<tr>
<td>Natural Gas</td>
<td></td>
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<tr>
<td>Well, pump, and gearhead</td>
<td>Mcf</td>
<td>$4.00</td>
<td>12.8400</td>
<td>$51.35</td>
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<tr>
<td>Repair &amp; Maintenance</td>
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<td></td>
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<tr>
<td>Well, pump, and gearhead</td>
<td>ac-in</td>
<td>$0.33</td>
<td>18.0000</td>
<td>$5.94</td>
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</tbody>
</table>

Department of Agricultural Economics - Kansas State University
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## 2017 Irrigated Corn (center-pivot) Cost-Return Budget

### Southwest Kansas (ave yields)

*Gregg Ibendahl, Dan O'Brien, Lucas Haag, John Holman*

**Budget date: Oct-01-2016**

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Price</th>
<th>Quantity</th>
<th>Amount</th>
<th>Sub-total</th>
<th>Your farm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crop consulting, drying, etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Interest on operating capital</td>
<td></td>
<td>6%</td>
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<td>$17.06</td>
<td>$17.06</td>
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<td>TOTAL DIRECT EXPENSES</td>
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<td></td>
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<td>$585.72</td>
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**FIXED EXPENSES**

### Depreciation

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Price</th>
<th>Quantity</th>
<th>Amount</th>
<th>Sub-total</th>
<th>Your farm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigation - Center Pivot</td>
<td>acre</td>
<td>$22.43</td>
<td>1.0000</td>
<td>$22.43</td>
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<tr>
<td>Power unit</td>
<td>acre</td>
<td>$17.60</td>
<td>1.0000</td>
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<tr>
<td>Well, pump, and gearhead</td>
<td>acre</td>
<td>$36.64</td>
<td>1.0000</td>
<td>$36.64</td>
<td>$76.67</td>
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<tr>
<td>Interest on durable equipment</td>
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<tr>
<td>Irrigation - Center Pivot</td>
<td>acre</td>
<td>$28.04</td>
<td>1.0000</td>
<td>$28.04</td>
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<tr>
<td>Power unit</td>
<td>acre</td>
<td>$3.70</td>
<td>1.0000</td>
<td>$3.70</td>
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<tr>
<td>Well, pump, and gearhead</td>
<td>acre</td>
<td>$27.48</td>
<td>1.0000</td>
<td>$27.48</td>
<td>$59.22</td>
<td></td>
</tr>
</tbody>
</table>

| Cash rent                                               | acre | $120.00| 1.0000   | $120.00| $120.00   |           |

**TOTAL FIXED EXPENSES**

**TOTAL SPECIFIED EXPENSES**

**RETURNS ABOVE DIRECT EXPENSES**

**RETURNS ABOVE TOTAL SPECIFIED EXPENSES**

18 acre-inches of water applied
300 foot well depth
$ 2.85 fuel cost per acre-inch of water applied

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